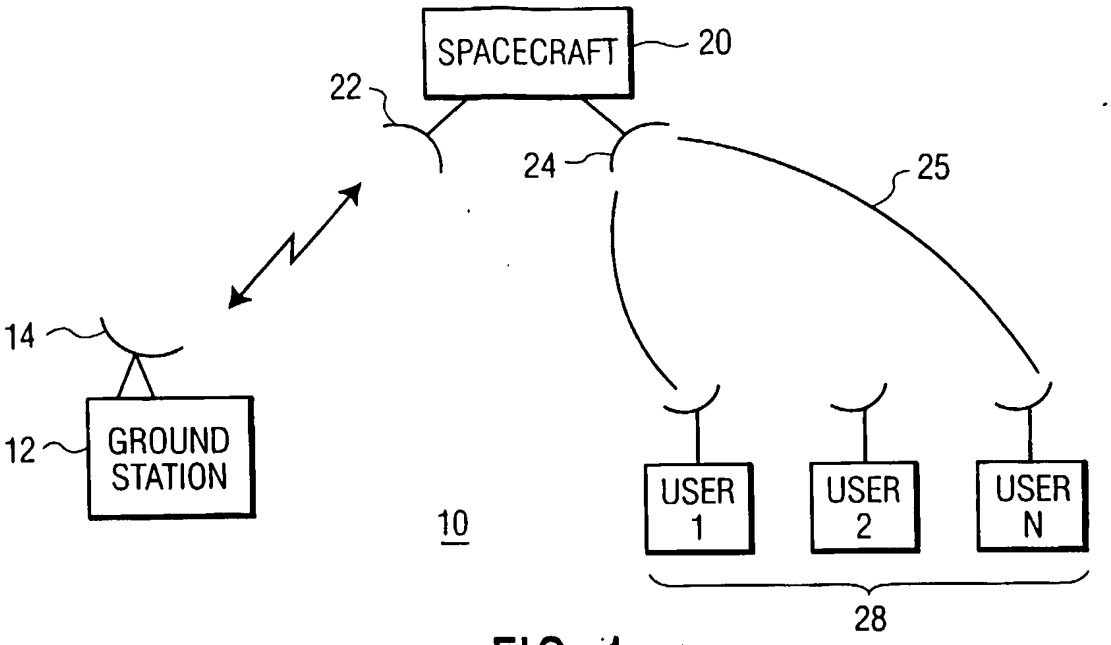

FIG. 1
PRIOR ART

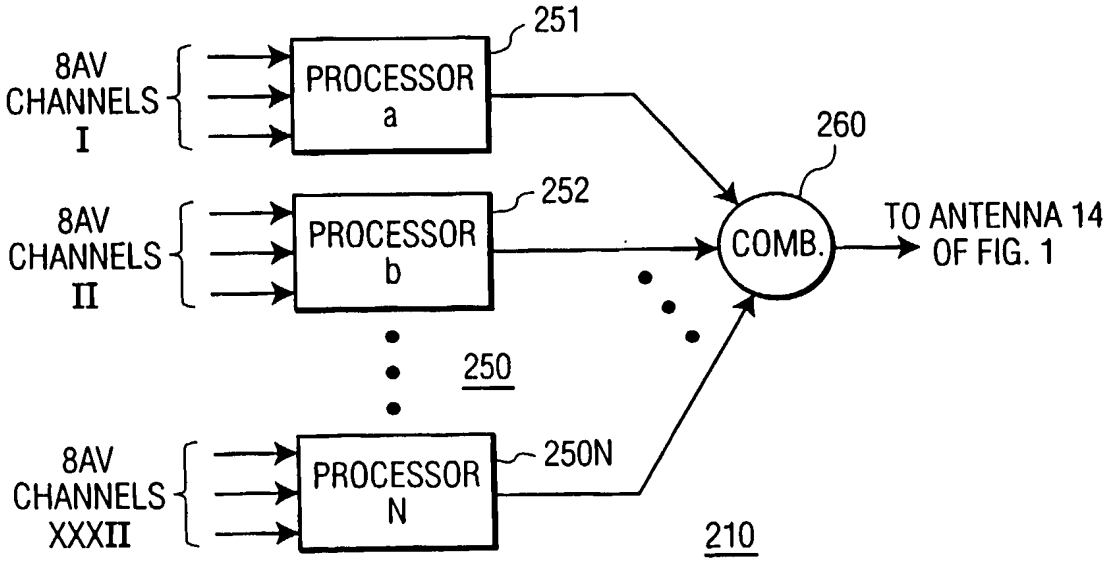

FIG. 2a
PRIOR ART

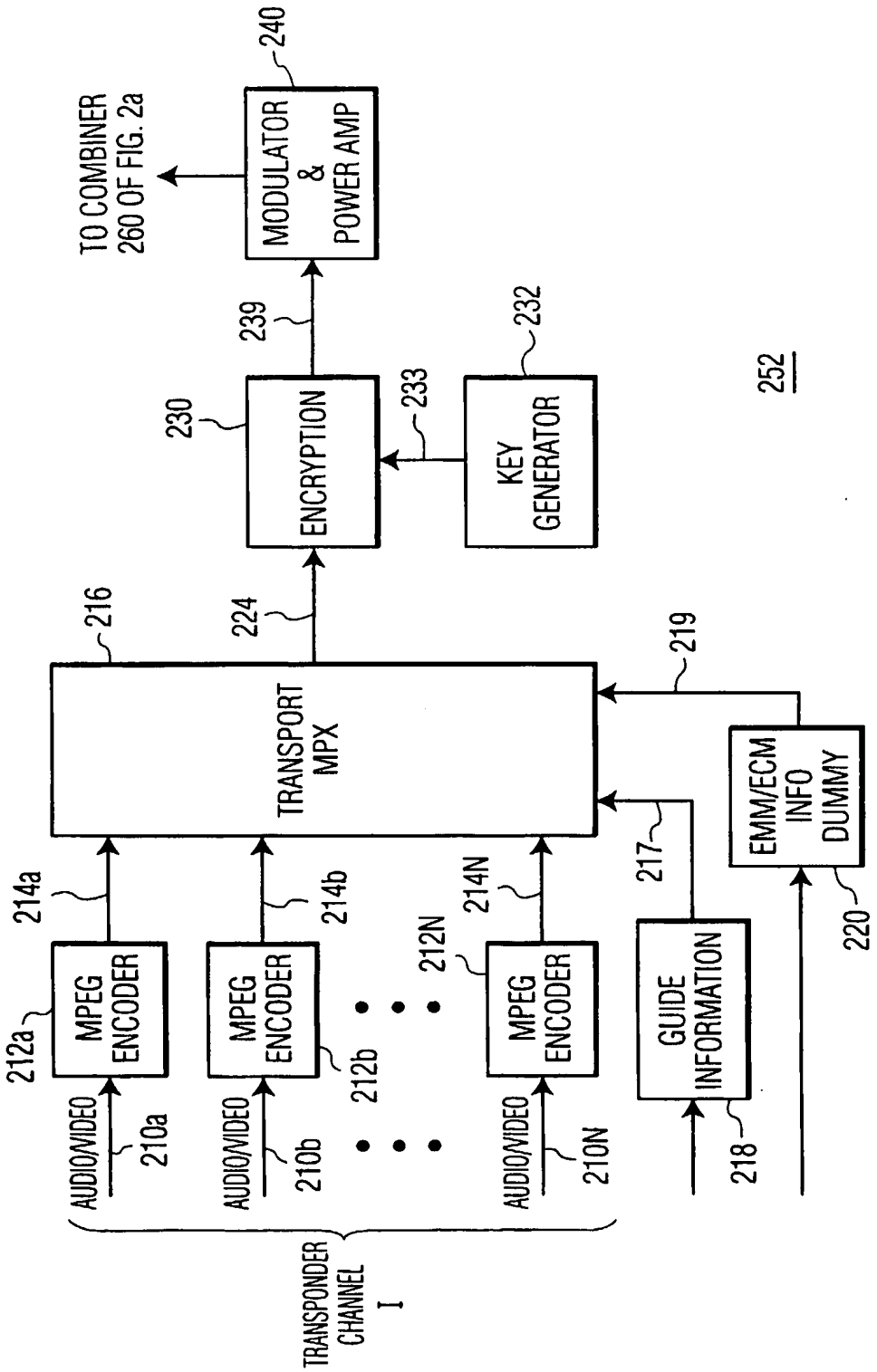

FIG. 2b
PRIOR ART

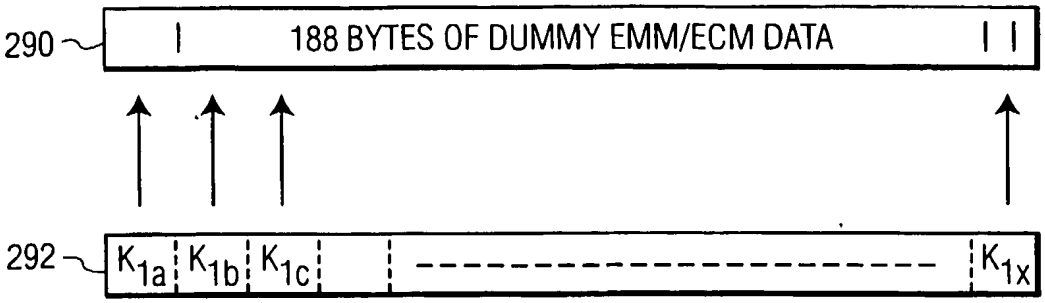

FIG. 2c
PRIOR ART

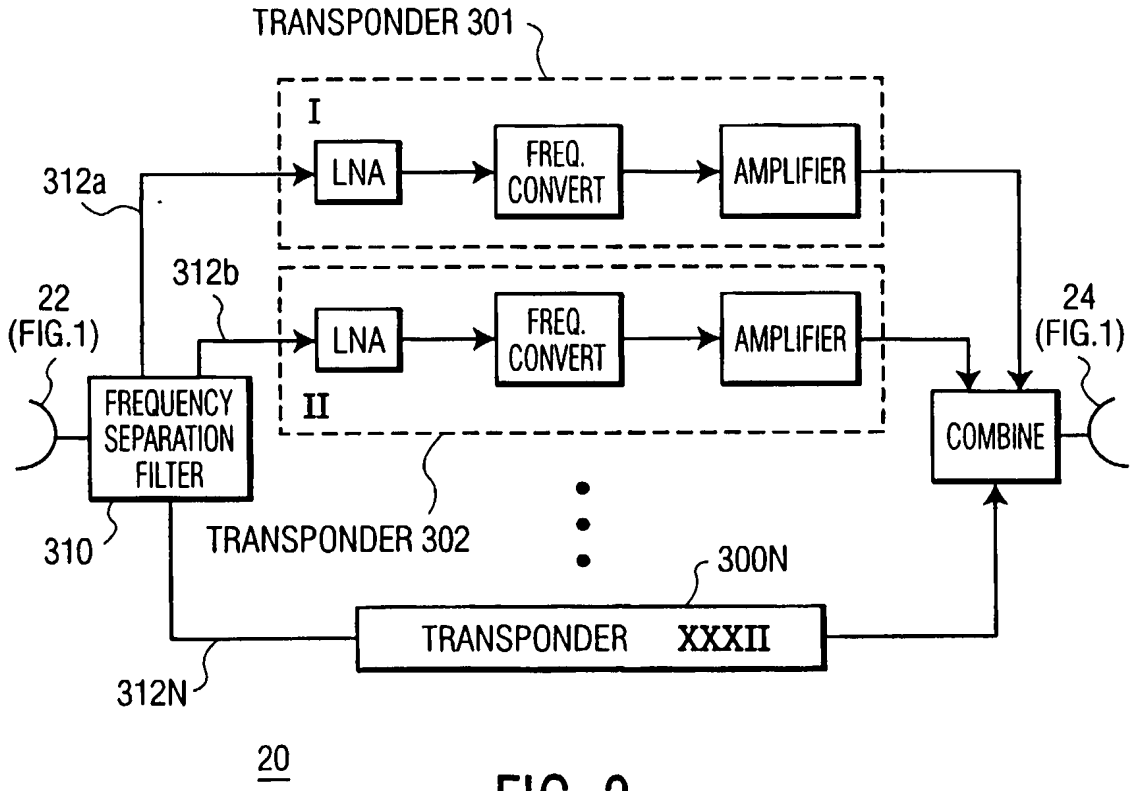

FIG. 3
PRIOR ART

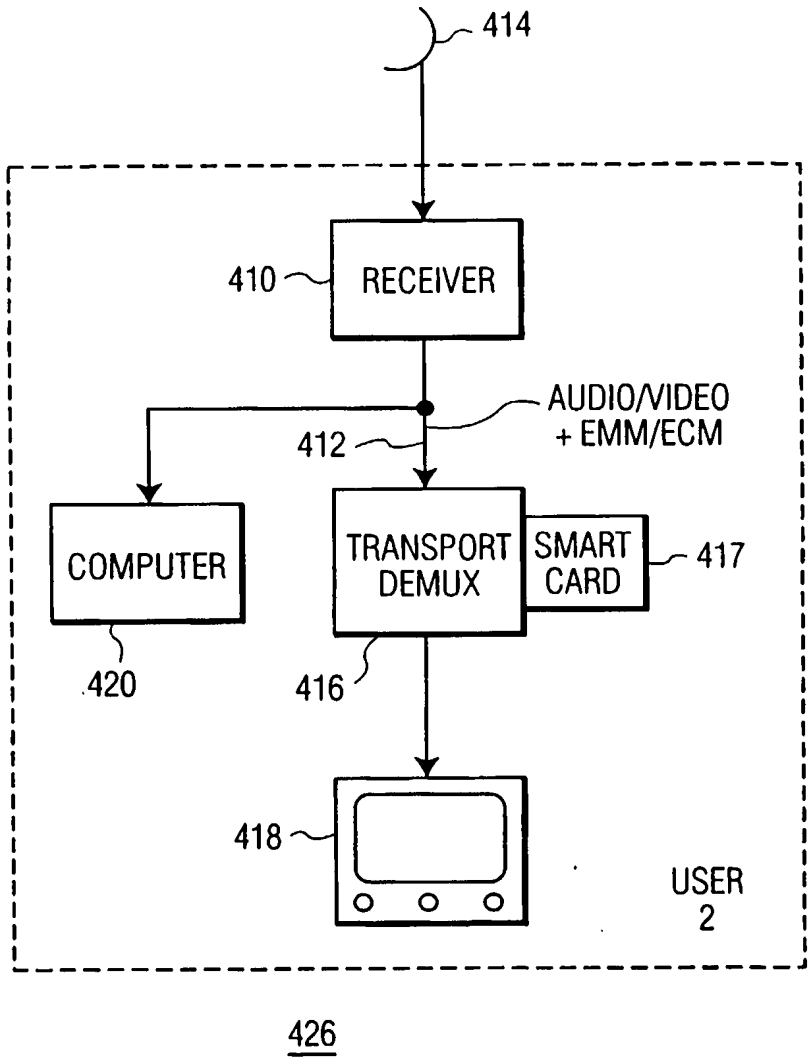
414
410
RECEIVER
412
AUDIO/VIDEO
+ EMM/ECM
COMPUTER
TRANSPORT
DEMUX
SMART
CARD
417
420
416
418
USER
2
426

FIG. 4

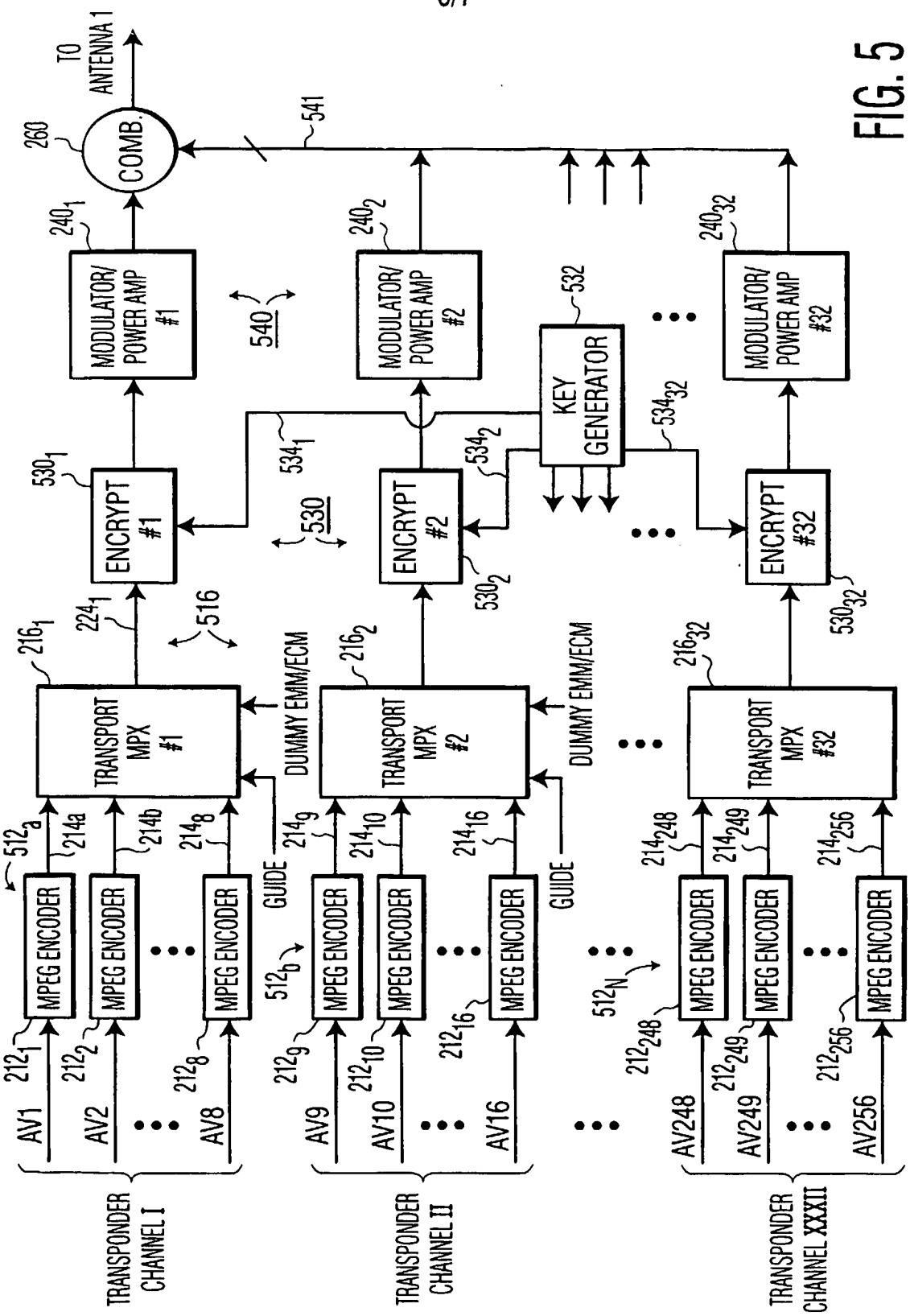
TO ANTENNA 1
260
COMB.
541
MODULATOR/ POWER AMP #1
MODULATOR/ POWER AMP #2
MODULATOR/ POWER AMP #32
240 1
240 2
240 32
540
532
KEY GENERATOR
534 1
534 2
534 32
530 1
530
530 2
530 32
ENCRYPT #1
ENCRYPT #2
ENCRYPT #32
216 1
216 2
216 32
224 1
516
TRANSPORT MPX #1
TRANSPORT MPX #2
TRANSPORT MPX #32
DUMMY EMM/ECM
DUMMY EMM/ECM
512 a
512 b
512 N
214a
214b
214 8
214 9
214 10
214 16
214 248
214 249
214 256
GUIDE
GUIDE
MPEG ENCODER
212 1
212 2
212 8
212 9
212 10
212 16
212 248
212 249
212 256
AV1
AV2
AV8
AV9
AV10
AV16
AV248
AV249
AV256
TRANSPONDER CHANNEL I
TRANSPONDER CHANNEL II
TRANSPONDER CHANNEL XXXII

FIG. 5

FIG. 6

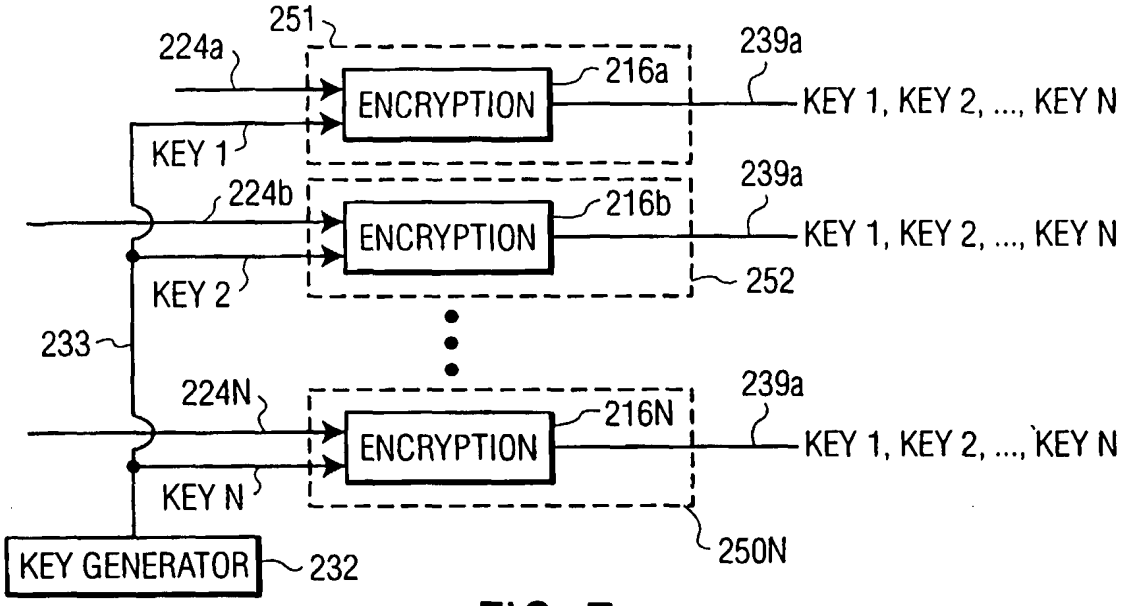

FIG. 7a

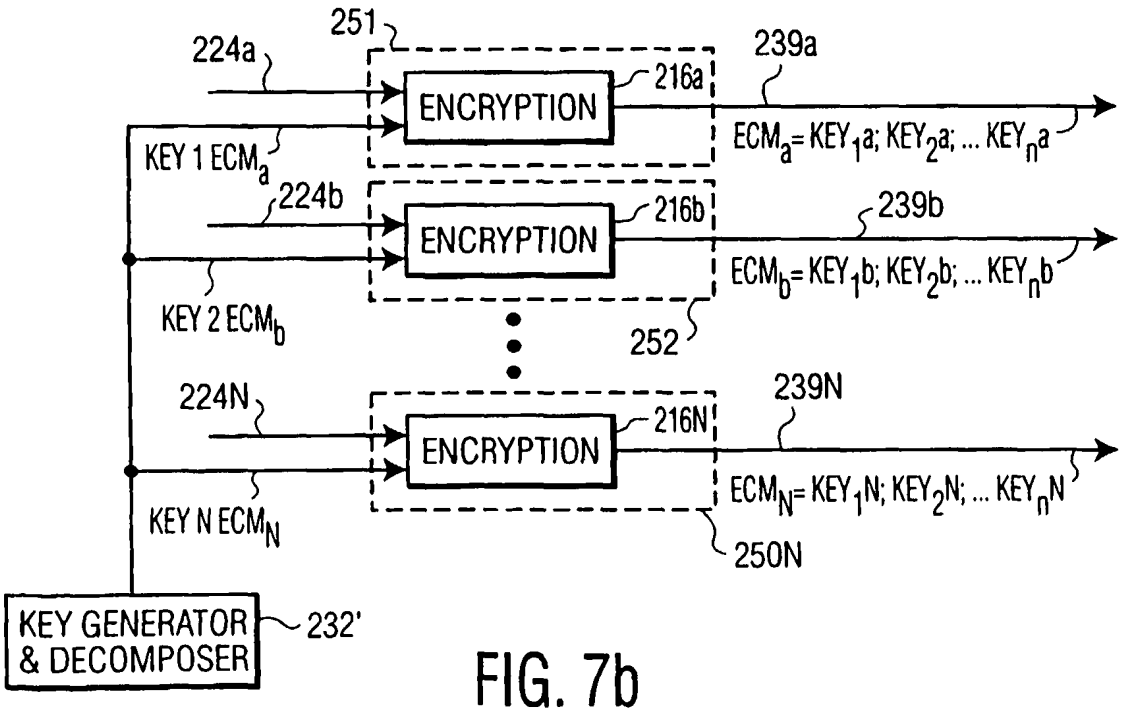

FIG. 7b

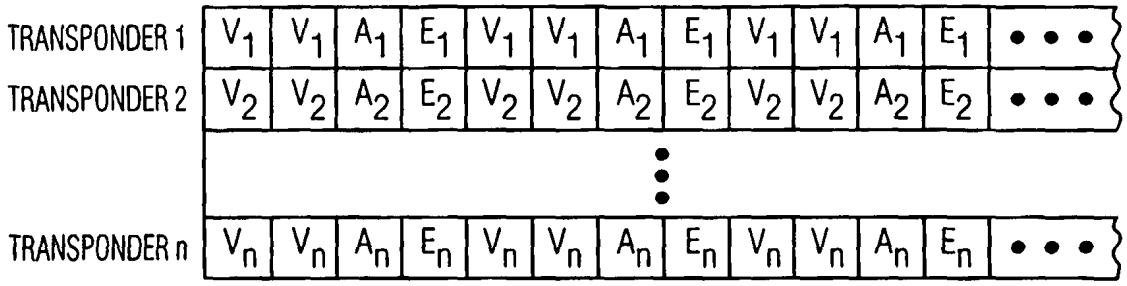
TRANSPONDER 1
V1 V1 A1 E1 V1 V1 A1 E1 V1 V1 A1 E1
TRANSPONDER 2
V2 V2 A2 E2 V2 V2 A2 E2 V2 V2 A2 E2
TRANSPONDER n
Vn Vn An En Vn Vn An En Vn Vn An En

FIG. 8a

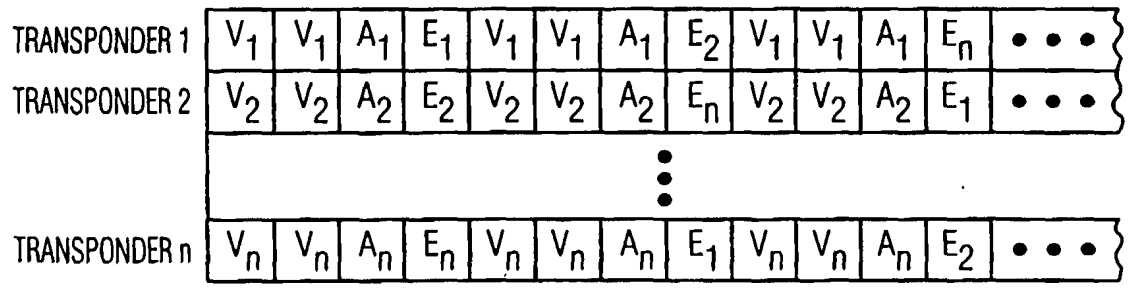
TRANSPONDER 1
V1 V1 A1 E1 V1 V1 A1 E2 V1 V1 A1 En
TRANSPONDER 2
V2 V2 A2 E2 V2 V2 A2 En V2 V2 A2 E1
TRANSPONDER n
Vn Vn An En Vn Vn An E1 Vn Vn An E2

FIG. 8b